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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/892,813	06/27/2001	Nir N. Shavit	SMY-035.01	SMY-035.01 3516	
25181	7590 11/19/2004		EXAMINER		
FOLEY HOAG, LLP			JAROENCHONWANIT, BUNJOB		
PATENT GROUP, WORLD TRADE CENTER WEST 155 SEAPORT BLVD BOSTON, MA 02110			ART UNIT	PAPER NUMBER	
			2143		

DATE MAILED: 11/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/892,813	SHAVIT ET AL.			
		Examiner	Art Unit			
		Bunjob Jaroenchonwanit	2143	-		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence add	iress		
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply opened for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fro, cause the application to become ABANDON	timely filed lays will be considered timely on the mailing date of this co	mmunication.		
Status	•	•				
1)⊠	Responsive to communication(s) filed on 27 Ju	<u>une 2001</u> .				
2a) <u></u> ☐	<i>,</i> —	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-45</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-45</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.		·		
Applicati	ion Papers					
9)[The specification is objected to by the Examine	r.	•			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	- · ·	•			
Priority ι	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ation No ved in this National S	Stage		
Attachmen	t(s)					
	te of References Cited (PTO-892)	4) Interview Summa				
3) 🛛 Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 6/27/01.	Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date I Patent Application (PTO	-152)		

Application/Control Number: 09/892,813

Art Unit: 2143

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 13, 23, 34 and 45 are rejected under 35 U.S.C. 102(e) as being anticipated by Flood et al (US. 6,560,619).
- 3. Regarding claims 1, 13, 23, 34 and 45, Najork a computer system that employs a plurality of execution threads to perform tasks that the threads identify dynamically, the computer system being so programmed as to:
- A) provide a plurality of task queues, each of which is associated with a different ordered pair of the threads, one thread of the ordered pair being denominated the enqueuer of that queue and the other being denominated the dequeuer thereof (a plurality of threads and Queue, Fig. 4);
- B) when one said thread identifies a task, pushes an identifier of that the task thus identified onto a set of at least one of the queues of which that thread is an enqueuer; and (enqueue thread, Fig. 4)
- C) when one said thread requires one of the dynamically identified tasks to perform, causes that thread to perform a task identified by a task identifier fetched by that thread from a task queue of which that thread is the dequeuer (dequeue thread, Fig. 4).

Application/Control Number: 09/892,813

Art Unit: 2143

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4. Claims 1-45 are rejected under 35 U.S.C. 102(e) as being anticipated by Flood et al (US. 6,560,619).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

- 5. Regarding claims 1-3, Flood discloses a garbage collector employing double ended queues (see abstract Fig. 4, Col. 6, lines 17-25,), i.e., a plurality of task queues, each of which is associated with a different ordered pair of the threads, one thread of the ordered pair being denominated the enqueuer, i.e., (push tasks, Fig. 4B) of that queue and the other being denominated the dequeuer thereof; when one said thread identifies a task (dynamically task identifier, Col. 5, lines 50-62), pushes an identifier of that the task thus identified onto a set of at least one of the queues of which that thread is an enqueuer; and when one said thread requires one of the dynamically identified tasks to perform, causes that thread to perform a task identified by a task identifier fetched by that thread from a task queue of which that thread is the dequeuer (pop tasks, Fig 4B).
- 6. Claims 4-45, basically cited the same limitation, as aforesaid in claim 1-3, but are in an alternative claims' form. There are rejected by the same rationale.

Application/Control Number: 09/892,813

Art Unit: 2143

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bunjob Jaroenchonwanit whose telephone number is (571) 272-3913. The examiner can normally be reached on 8:00-17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bunjob Jaroenchonwanit Primary Examiner

Art Unit 2143

/bj 11/17/04